

METHOD FOR PREVENTING HIV-1 INFECTION OF CD4<sup>+</sup> CELLS

**Abstract of the Disclosure**

5     This invention provides methods for inhibiting fusion of HIV-1 to CD4<sup>+</sup> cells which comprise contacting CD4<sup>+</sup> cells with a non-chemokine agent capable of binding to a chemokine receptor in an amount and under conditions such that fusion of HIV-1 to the CD4<sup>+</sup> cells is inhibited. This  
10    invention also provides methods for inhibiting HIV-1 infection of CD4<sup>+</sup> cells which comprise contacting CD4<sup>+</sup> cells with a non-chemokine agent capable of binding to a chemokine receptor in an amount and under conditions such that fusion of HIV-1 to the CD4<sup>+</sup> cells is inhibited,  
15    thereby inhibiting the HIV-1 infection. This invention provides non-chemokine agents capable of binding to the chemokine receptor and inhibiting fusion of HIV-1 to CD4<sup>+</sup> cells. This invention also provides pharmaceutical compositions comprising an amount of the non-chemokine  
20    agent capable of binding to the chemokine receptor and inhibiting fusion of HIV-1 to CD4<sup>+</sup> cells effective to prevent fusion of HIV-1 to CD4<sup>+</sup> cells and a pharmaceutically acceptable carrier.

PCT/US2009/041660